NEKRASOV, Mikhail Makarovich, dotsent, kand. tekhn. nauk; IL'CHERKO, Mikolay Semenovich, dotsent, kand. tekhn. nauk; KLETCHERKOV, Ivan Ivanovich, aspirant.

Enamel-lacquer for conductors made from modified laquers. Isv. vys. ucheb. sav.; elektromekh. 2 no.6:93-95 '59.

(MIRA 12:11)

1. Zaveduyushchiy kafedroy dielektrikov i poluprovodnikov Kiyevskogo politekhnicheskogo instituta (for Nekrasov). 2. Kafedra dielektrikov i poluprovodnikov Kiyevskogo politekhnicheskogo instituta (for II ohenko). 3. Kiyevskiy politekhnicheskiy institut (for Kletchenkov). (Electric insulators and insulation)

SOV/144-59-5-11/14

Nekrasov, M.M., Candidate of Technical Sciences, Docent, Kletchenkov, I.I., Aspirant AUTHORS:

TITLE: Modified Silicone Insulation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 5, pp 98 - 100 (USSR)

ABSTRACT: Insulating materials based on organic polymeric resins modified by polyorganosiloxanes are of considerable interest. These materials have good adhesion to metals, a resistance to heat which is nearly as good as that of ordinary silicone resins, and high drying-speeds. Resins that may be modified include polyesters, epoxides, polyvinylacetyls, phenolformaldehydes and others. Moreover, the process of combined polymerisation of certain organic polymers (oils and resins) with monomers or polyorganociloxanes can also give technically valuable products. By this process of co-polymerisation, the authors developed a series of modified silicones, and in particular a combination of silicone and tung oil designated SK-3. They also used polyorganosiloxane fluids Nrs 2, 3, 4 and 9 (of the All-Union Electro-Technical Institute nomenclature). Insulation based on modified silicones has a Card 1/3

SOV/144-59-5-11/14

Modified Silicone Insulation

good resistance to moisture and oil, is flexible and of good insulating properties. For example, samples of cable paper (K-12) of 100 x 100 mm were impregnated with silicone fluid Nr 2, pure silicone varnish EF-3 and co-polymer SK-3. The samples were heat-treated at a temperature of 150 - 160°C, which did not impair the mechanical properties of the paper; they were then weighed and maintained in a wet atmosphere for 40 hours. The results of the tests are given in Figure 1 and it will be seen that treatment with co-polymer SK-3 gives the least water absorption, the weight increase being only 1.4%. Electric strength tests results on the material after exposure to moist atmosphere are recorded in Figure 2; it will be seen that co-polymer SK-3 gives the best results. Varnish SK-3 was also used to impregnate the annular windings of a transformer used in welding large pipes. It operates under particularly difficult conditions; on pipelines its primary winding is

Card 2/3

807/144-59-5-11/14

Modified Silicone Insulation

very near the welds and is exposed to high temperatures, steam and bad weather. The coils impregnated with SK-3 were compared with other types. including the standard product impregnated with varnish Nr 460, and the best results are tabulated. The performance of the coils impregnated with co-polymer SK-3 was particularly good. It is concluded that modified silicone insulation is very useful for electrical equipment exposed to high temperatures and humidity. Modified silicone insulation has the advantage that it is only a quarter of the cost of insulation based on pure silicone compositions. The resistance to heat of the modified silicones is not quite as good as that of the straight silicones, but the adhesion, elasticity and mechanical proportios are usually much better.

There are 2 figures, 1 table and 2 Soviet references.

ASSOCIATION: Kafedra dielektrikov i poluprovodnikov, Kiyevakiy politekhnicheskiy institut (Chair of Dielectrics and Semiconductors, Kiyev Polytechnical Institute)

SUBLITTED: April 28th, 1959. Card 3/3

PHASE I BOOK EXPLOITATION

SOV/6229

- Alent'yev, Aleksandr Aleksandrovich, Ivan Ivanovich Kletchenkov and Aleksandr Aleksandrovich Pashchenko
- Kremniyorganicheskiye gidrofobizatory (Hydrophobic Organosilicons). Kiyav, Gostekhizdat USSR, 1962. 109 p. 600 copies printed.
- Ed.: V. N. Gavrilov; Tech. Ed.: K. F. Gusarov.
- PURPOSE: This booklet is intended for technical and scientific personnel concerned with the development of processes of water-proofing materials.
- COVERAGE: The booklet deals with hydrophobic organosilicons. The use of organosilicon compounds for waterproofing glass, honey-comb concrete, porous silicate cement, and cellulose materials is discussed. The technology of waterproofing materials and methods for determining their waterproofness are described in detail. The chemistry and development of organosilicon compounds is reviewed. The booklet is based on the works of K. A. Andrianov,

Card 1/4

Hydrophobic Organosilicons	30 V/ 6229
A. P. Kreshkov, B. N. Dolgov, S. A. Yamanov, and M. G. Voi There are 85 references: 31 Soviet, 33 English, 15 German 4 French, and 2 Ukrainian.	ronkov.
TABLE OF CONTENTS:	
Foreword	· 3
Ch. I. Chemistry of Organosilicon Compounds 1. Main stages in the development of the chemistry of organosilicon compounds 2. Organosilicon compounds and their properties 3. Principal methods of producing monomeric organosilicon compounds 4. Production of polymeric organosilicon compounds 5. Basic organosilicon compounds used in waterproofing	6 15 26 36 37
Ch. II. Wetting Processes Card 2/4	46

ACCESSION MR: AP4020294

8/0139/64/000/001/0023/0025

AUTHORS: Nekrasov, M. M.; Kletchenkov, I. I.; Zinkevich, R. A.

TITLE: Low voltage nonlinear resistance in doped silicon carbide

SOURCE: IVUZ. Fisika, no. 1, 1964, 23-25

TOPIC TAGS: resistance, low voltage resistance, low voltage nonlinear resistance, silicon carbide, doped silicon carbide, volt aspere characteristic, chromium boride, silicon, silica, beryllium oxide

ABSTRACT: Nonlinear resistance has been measured for the system SiC-CrB₂-Si(SiO₂, BeO), that is, SiC with additions of CrB₂-Si, CrB₂-SiO₂, and CrB₂-BeO. Samples with contents of 1, 2, 5, 10, and 15% CrB₂ were obtained, and it was found that with increase of CrB₂ content above 2% nonlinearity of the volt-empere characteristics declined. This is probably due to formation of conductive bridges of CrB₂. The introduction of Si, SiO₂, or BeO along with CrB₂ increased the electrical resistance and made it possible to obtain nonlinear resistance with a coefficient of nonlinearity as high as 4 (in samples that are highly moisture resistant and heat resistant and that are very stable under operating conditions). The general

Card 1/2

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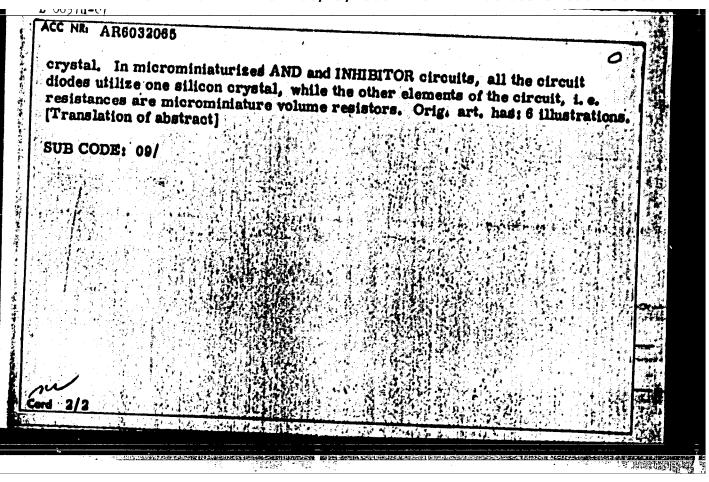
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range of the nonlinvers obtained by achies: 3 figures.	near factor with th iding about 10% of	ese additions was this bonding mater	2 to 3.5. Bes ial to SiC. O	t results rig. art.	
ASSOCIATION: Kiyen nical Institute)	skiy ordena Lenina	politekhnicheskiy	institut (M	ev Polytech-	
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LIST SECURITIES CONTRACTOR					

MEKRASOV, M.M., kand, tekhn. nauk; KLETCHENKOV, I.I., kand. tekhn. nauk; BORODINA, S.A.

Tunnel transistors. Avtom. i prib. no.3:13-16 J1-3 '64.
(MIRA 18:3)

ACC NR. AR6017159		R/0275/66/000/001/	20	
WIHOR: Kletcher	* Alterio	۶.	27	
FITLE: A new met n-type silicon_1	hod of obtaining a point	t-contact p-n jung	t10n 1n 19	de e de men
		Aba 183	17	
SOURCE: Rer. En.	Elektronika i yeye pri:	meneuria, wom, 193	•	1 9%
RER SOURCE: Vest	n. Kiyevsk. politekhn.	in-ta. Ser. avtoma	tiki,	
elektropriborosti	. 1 radioelektron., no.	1, 1964, 161-165		
elektropriborosti	. 1 radioelektron., no.	1, 1964, 161-165		
elektropriborost: ropic TAGS:pm junc	tion, n type silicon, a	1, 1964, 161-165		Service of the servic
elektropriborost: ropic TAGS:pm junc abstract: A finc	tion, n type silicon, ale aluminum wire is welder sawtooth pulses through	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	A Company of the Comp
elektropriborost: POPIC TAGS: pn junc ABSTRACT: A fine by passing single	tion, n type silicon, ale aluminum wire is welder sawtooth pulses through	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	The second of th
elektropriborosti ropic TAGS: pn junc ABSTRACT: A fine by passing single i. B. [Translatic	etion, n type silicon, all e aluminum wire is welder e sawtooth pulses through on of abstract]	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	A Company of the Comp
olektropriborosti POPIC TAGS: pn junc ABSTRACT: A fine by passing single L. B. [Translatic	etion, n type silicon, all e aluminum wire is welder e sawtooth pulses through on of abstract]	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	And the second s
olektropriborosti POPIC TAGS: pn junc ABSTRACT: A fine by passing single I. B. [Translatic	etion, n type silicon, all e aluminum wire is welder e sawtooth pulses through on of abstract]	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	
olektropriborosti POPIC TAGS: pn junc ABSTRACT: A fine by passing single I. B. [Translatic	etion, n type silicon, all e aluminum wire is welder e sawtooth pulses through on of abstract]	1, 1964, 161-165 Luminum wire donto a n-type si	licon wafer	

ENT(d)/ENT(1)/ENP(1) LJP(c) OG/HB L 08574-67 ACC NR AR6032065 SOURCE CODE: UR/0271/66/000/007/B027/B027 AUTHOR: Kletchenkov, I. I. TITLE: OR-, AND-, and INHIBITOR-type diode logic circuits of microminiature design 20 SOURCE: Ref. sh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. radioelektron., no. 2, 1965, 127-131 TOPIC TAGS: logic circuit, logic design, silicon diode, pn junction, AND circuit, OR circuit, INHIBITOR circuit, microminiature design, n type silicon ABSTRACT: A method of producing OR-, AND-, and INHIBITOR-type diode logic circuits with three microminiature inputs is described. It is based on a new method of obtaining point-contact p-n junctions on n-type silicon. The p-n junction is produced by fusing a thin aluminum wire to an n-type silicon crystal, while a single pulse of sawtooth current is transmitted through the contact between the wire and the silicon. To microminiturise the OR circuit, all its elements utilize one silicon UDC: 681, 142, 67



KLETECKA.

PRESL , J.: HERZMANH, J.: KLETHCES, P.: VOHNOUT, S.: ROHLING, S.

Effect of pentamethylenetetrasole on thyroid incorporation of radioiodine in rats. Cesk. fysiol. 8 no.2:135-136 Mar 59.

1. Ustav pro peci o matku a dite, Vykimny ustav endokrinologicky, Fraha. Predneseno na Sumposiu o ucincich ionisacniho zareni dne 16.10. 1958 v Prase.

(PHHTYLEMETHTRASOLE, eff.
on thyroid radioiodine incorporation (Cs))
(THYROID GIAMD, eff. of drugs on,
pentylenetetrasole on radioiodine incorporation (Cs))
(IODINE, radioactive,
thyroid incorporation, eff. of pentylenetetrasole (Cs))

PRESL, J. KLETECKA, P.

Hypothermia following the administration of pentamethylenetetrasole and cerebrocortical oxygen requirement. Gesk, fysiol. 8 no.3:238-239 Apr 59.

1. Ustav pro o matku a dite, Praha. Predneseno na 111. fysiologickych dnech v Brne dne 14, 1. 1959.

(PENTYLEMETERAZOLE, eff.
body temperature decrease, eff. on cerebrocortical oxygen requirement (Cz))

(BODY TEMPERATURE, eff. of drugs on, pentylenetetrasole, cerebrocortical oxygen requirement requirement reaction (Cz))

(OMNUMERAL CONTEX, metab.
oxygen requirement in pentylenetetrasole-induced hypothermia (Cz))

PRESL, Jiri; KLETECKA, Pravdomil

Analeptics in hypoxic bradyoardia. Cosk. gyn. 24[38] no.3:190-191 Mar 59.

1. Ustav pro peci o matku a dite v Praze, reditel prof. dr. J. Trapl.

(ERADYCARDIA, exper.

hypoxic fetal in rabbits, eff. of maternal admin. of
amaleptics in pregn. (Gz))

(ASPHIXIA HEOMATORUM, exper.

hypoxic fetal bradycardia in rabbits, eff. of maternal
admin. of analeptics in pregn (Gz))

(ANAIMPTICE, effects.

admin. in progn. (Cz))

on exper. hypoxic fetal bradycardia in rabbits, maternal

DYKOYA, H.; PRESL, J., kand. lek. ved.: POSPISIL, J.; KIETECKA, P., Technicka spoluprace: He Jna, A., Fatinova, B.

Tissue reactions to certain types of suture material in rate. Cesk. gyn. 24[38] no.9:716-722 Nov. 1959.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel prof. dr. J. Trapl. (UTREUS, surg.) (SUTURES)

PRESL, Jiri; KIRTECKA, Pravdomil

Phenobarbital and the effect of estrogens on the adrenal cortex in rats. Cas. lek. cesk, 99 no.27:838-842 1 J1 '60.

1. Ustav pro peci o matku a dite v Praze, reditel doc. MUDr. M. Vojta.

(ADRESAL CORTEX pharmacol.) (PHESORARBITAL pharmacol.) (DIETHYLSTILLESTROL pharmacol.)

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工工工程的有效。但例如了其他种种的可能的的对

PRESL, Jiri: KIRTECKA, Pravdomil

Pentamethylenetetrasole and oxygen requirement in the cerebral cortex. Cas.lek.cesk.99 no.39:1235-1238 23 8 1 60.

1. Ustav pro peci o matku a dite v Prase, reditel doc.dr. M.Vojta. (PENTYLEMETETRAZOLE pharmacol) (CHREBRAL CONTEX metab)

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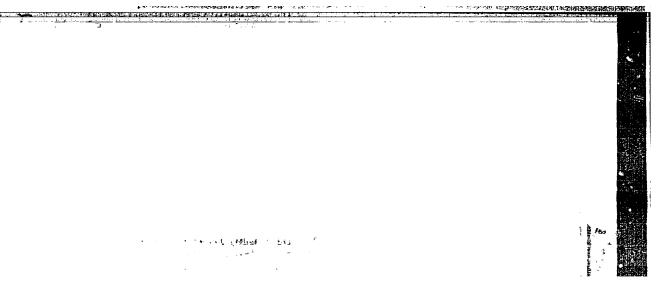
PRESL, Jiri, CSc.; KLETECAA, Pravdomil

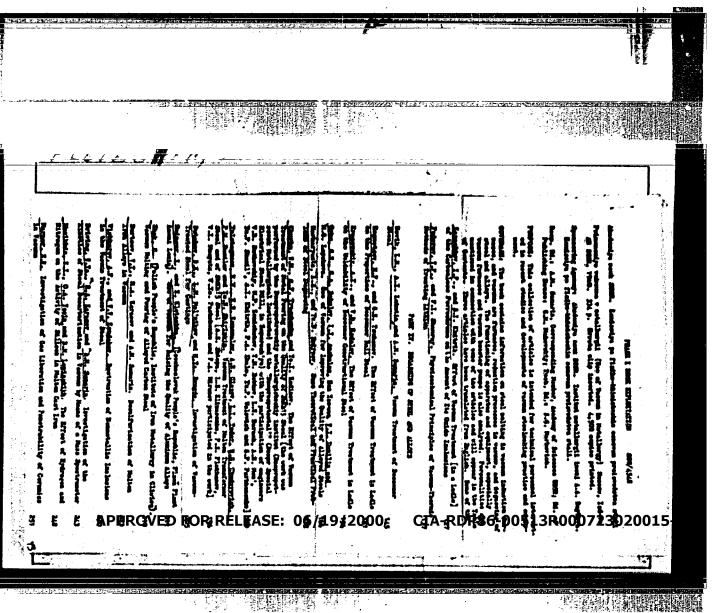
On the problem of the effect of bromine on the estrus cycle in rats. Cesk. gyn. 27[41] no.4:245-249 Hy '62.

1. Ustav pro peci o matku a dite v Prase, red. doc. MUDr. H.Vojta, saslousily lekar GSSR.
(ESTRUS pharmacol) (BROMINE pharmacol)

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32409

2/034/62/000/001/003/011 E073/E535

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4016

AUTHORS :

Koutský, Jaroslav, Docent Engineer, Condidate of

Science, <u>Kletečka, Zdeněk,</u> Engineer, Vetýška, Jihanialav

TITLE:

Influence of melting in vacuum on the properties of

ferritic heat-resistant steels. I.Cr containing heat resistant steels Hutnické listy 77 no.1, 1962, 31-37

PERIODICAL:

TEXT: The authors have investigated the influence of melting in vacuum on the properties of heat-resistant steels at present being produced or developed in Czechoslovakia. The first studies were made on inoculated 12% Cr steel (type Cri2a2V). The study was made using a 300 kg ingot from a 5-ton heat produced in an electric are furnace and having the following composition. O.18% C. O.74% Mn. O.42% Si. O.010% P. O.018% S. O.60% Ni. 11,9% Cr. 2.05% W. 0.16% V. 0.15% Cu. 0.04% N. From this ingot 22 mm diameter rods and $14 \times 14 \text{ mm}$ prisms were forged and used as test specimens. Furthermore, 100 mm diameter electrodes were forged and machined down to 80 mm diameter and used for subsequent re-melting in vacuum in a furnace, produced by Messrs. Heraues (west Germany), of 30 kg capacity. Three electrodes were Card 1/3

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Influence of melting in vacuum ...

32409 2/034/62/000/001/003/011 E073/E535

re-melted at a vacuum of 10^{-3} mm Hg and another three electrodes were re-melted at a pressure of about 10^{-1} mm Hg. From each series of the thus re-melted ingots one was investigated in the as-cast state, and another after forging. A part of the material from the original 300 kg ingot was re-melted in a 40 kg induction furnace in a normal atmosphere and deoxidized with CaSi part of the material was subjected to tests in the as-cast state, another part after forging. The results, which are described in some detail, showed that except for a certain increase in creep resistance, which still has to be verified by means of long-run tests, the re-melting in vacuum did not have any pronounced influence on the mechanical properties. The hydrogen content which was very low in this steel, remained virtually unchanged after resmelting in vacuum. The content of other elements did not drop appreciably by the re-melting in vacuum except for the nitrogen content, which was 0.042% in the induction melted steel, 0.021% in the steel produced at 10 mm Hg and 0.018% in the steel produced at 10 mm Hg. The authors emphasize that the described results are the first of a series and were obtained for specimens from a single basic heat. Card 2/3

32409 Influence of melting in vacuum ... z/034/6**4/**000/001/003/011 E073/E535

Therefore, the validity of the conclusions for other types of 12% Cr steels has still to be verified. There are 22 figures, 5 tables and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The English-language reference reads as follows: Ref.5: K.J. Irvine, D.J. Crowe, P.B. Pickering, J. Iron Steel Inst. 195, 1960, p.386.

Závody V. I. Lenina, Plzeň (V. I. Lenina Works, Pilsen) ASSOCIATION:

SUBMITTED: September 8, 1961

Card 3/3

CIA-RDP86-00513R000723020015-1" APPROVED FOR RELEASE: 06/19/2000

EMINGER, Zd. ins., Dr.So.; KLETECKA, Zd., ins.

Vacuum are furnace melting in a unit of laboratory size. Part 1: Experience with the furnace operation. But listy 17 no.9:617-626 8 162.

1. Zavody V.I. Ienina, n.p., Plsen.

RMINGER, Zdenek, DrSc.; KLETECKA, Zdenek, ins.

Melting loss of some elements during the vacuum arc melting of selected steels and alloys. But listy 19 no.8:539-544 Ag 164.

1. Zavody V.I. Lenina Mational Enterprise, Plsen.

L 22578-66

ACC NR. 116012975

SOURCE CODE: UR/0094/65/000/009/0043/0043

AUTHOR: Bol'sham, Ya. M.; Vinogradov, A. A.; Volobrinskiy, S. D.; Geyler, L. B.; Grudinskiy, P. G.; Dolginov, A. I.; Zil'berman, R. I.; Kazak, N. A.; Kletenik, B. I.; Knyazevskiy, B. A.; Livshits, D. S.; Mel'nikov, N. A.; Minin, G. P.; Mukoseyev, Yu. L.; Nayfel'd, M. R.; Petrov, I. I.; Ravin, V. I.; Samover, H. L.; Serbinovskiy, G. V.; Syromyatnikov, I. A.

ORG: none

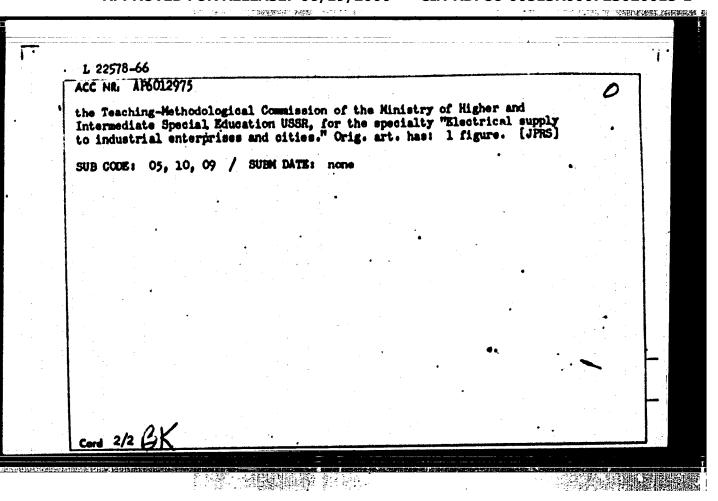
TITLE: Lev Veniaminovich Litvak (on the occasion of his 60th birthday)

SCURCE: Promyshlennaya energetika, no. 9, 1965, 43

TOPIC TAGS: electric engineering personnel, electric power engineering

ABSTRACT: The noted specialist of industrial power production, Candidate of Technical Sciences, Docent of the Correspondence Power Institute Lev Veniaminovich LITVAK began his engineering activity at the Hoscow Association of State Electric Stations in 1929. Later he became one of the coauthors of all the "Directives for the increase of the power factor" issued in 1954, 1955, and 1961. He published 70 scientific papers. For his successful activities in defense industries during World War II he was decorated by "Znak Pocheta." After the war he concentrated on scientific-pedagogical work and in recent years worked actively in

Card 1/2



2015年12日 · 中国中国国际国际的政策制度 第1月 日本日

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BOL'SHAM, Ya.M.; VINOGRADOV, A.A.; VOLOHRINSKIY, S.D.; GEYLER, L.B.; GRUDINSKIY, P.G.; DOLGINOV, A.I.; ZIL'BERMAN, R.I.; KAZAK, N.A.; KLETENIK, B.I.; KNYAZEVSKIY, B.A.; LIVSHITS, D.S.; MEL'NIKOV, N.A.; MINIH, G.P.; MUKOSEYEV, Yu.L.; MAYFEL'D, N.R.; PETROV, I.I.; RAVIN, V.I.; SAMOVER, N.L.; SERBINOVSKIY, G.V.; SYROMYATNIKOV, I.A.

Lev Veniaminovich, 1905; cm:his 60th birthday. Prom. energ. 20 no.9:43 8 165. (MIRA 18:9)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020015-1

KIETTHIK, D. Y.

21327

KLETHRIK, D. B. Rekotorye Zamechaniya ob izlozhenii teorii dvoynlkh integradov vo vtuzakh. Uspekhi matem. Nakhk, 1949, Vyp. 3, S. 191-75.

SO: Letopis! Zhurnal'nykh Statey, No. 26, Noskva, 1949.

KLETZNIK, D. V.

Sbornik zadach po analiticheskoi geometrii / Collection of problems in analytical geometry/. Moskva, Gostekhizdat, 1950. 220 p.

SO: Monthly List of Russian Accessions. Vol. 6 No. 8 November 1953

KLETERIK, D.V. [author]; SADOVSKIY, L.Ye. [reviewer]; EFIMOV, M.V.[redaktor].

"Collection of problems in analytical geometry." D.Y.Kletenik. Reviewed by L.E.Sadovskii. Usp.mat.nauk. 8 no.4:208-210 Jl-Ag '53. (MLRA 6:8) (Geometry, Analytic) (Kletenik, D.Y.)

KLETENIK, D.V.

[Collection of problems in analytical geometry] Sbornik sadach po analiticheskoi geometrii. Isd. 2-e. Moskva, Gostekhisdat, 1954. 240 p. (MERA 8:2D)

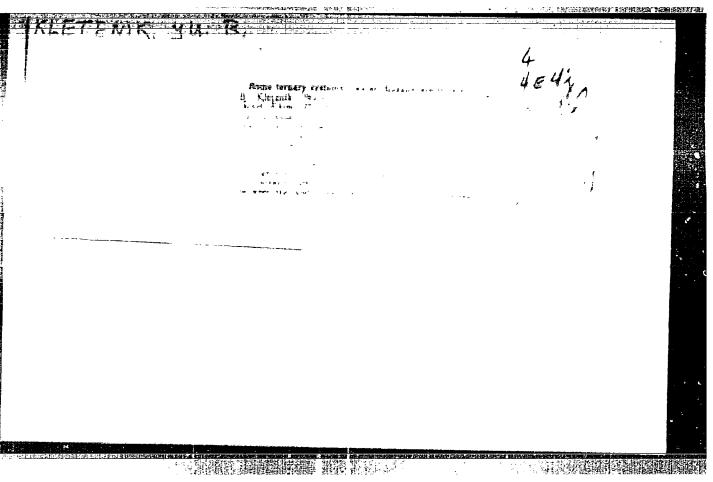
KLETHNIK, David Viktorovich: TEFINOV, N.V., professor, redektor; SOLODKOV, V.A.; redektor; TURKKIRE, N.A., tekhnicheskiy redektor

[Gollection of problems in analytical geometry] Shornik madach po analiticheskoi geometrii. Pod red. N.V.Rfimova. End. 4-oe, stereotipnos. Moskva, Gos. ind-vo tekhniko-teoret. lit-ry, 1956. 240 p. (MIRA 10:2)

(Geometry, Analytic-Problems, exercises, etc.)

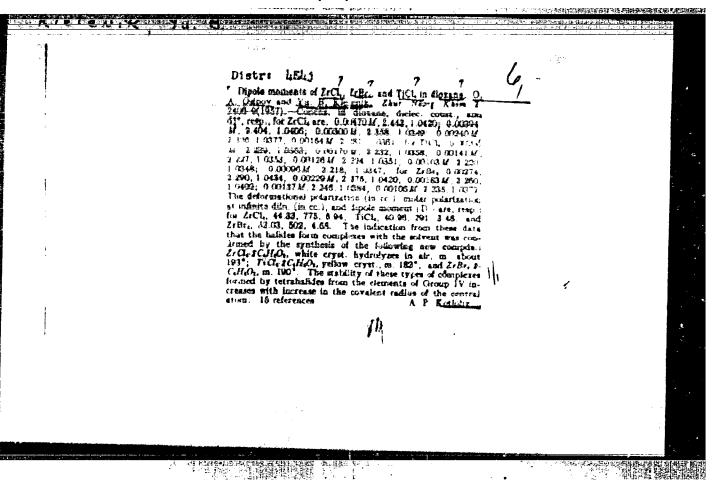
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CIA-RDP86-00513R000723020015-1



KISTONIA, TU.B.

AUTHORS:

Osipov, O. A., and Kletenik, Yu. B.

79-11-3/56

TITLE:

Dipole Moments of the Complex Compounds of Zirconium Chloride With Compound Esters of Monobasic Acids XII (Dipolinyye momenty kompleks= nykh soyedineniy tetrakhlorida tsirkoniya s sloshnymi efirami odno.

osnovnýkh kislot XII).

PERIODICAL: Zhurnel Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 2921-2927 (USSR).

ABSTRACT:

The interaction of the tetrachlorides of tin and titanium with various organic compounds containing nitrogen and oxygen leads to the formation of complex molecules with high dipole-moments 1-3. Such a high polarity of the complex compounds with SnCl, and Ticl, cannot

alone be explained by a polarization-interaction and indicates the occurrence of a strongly polarized donor-acceptor-binding. In this paper the authors give the results which they obtained in the determination of the dipole-moments of the complex compounds of sirconium chloride, ethyl- and isopropyl-formate, ethyl-, isopropyl-, isobutyland benzyl-acetate with the ethyl ester of butyric acid. Thus it is shown that the interaction between zirconium chloride and the compound esters of monobasic acids leads to the formation of complex compounds of high polarity. The dipole moments of the resulting compounds were

Card 1/2

STEELS VARIETIES

Dipole Moments of the Complex Compounds of Zirconium Chloride With 79-11-3/56 Compound Esters of Monobasic Acids XII.

measured (in benzene). The change of the alcohol radical in the ester has no influence upon the height of the dipole-moment in the complex, whereas the increase in the partial weight of the acid residue sharps ly reduces it. From this follows that the stability of the complex of the type ZrCl_i . RCOOR₁ in the solution is chiefly dependent on the quantity of the acid residue. According to the measurements the complex compounds of ZrCl_i with two ester-melecules possess a cis-structure.

There are 8 tables, and 19 references, 12 of which are Slavic.

SUBMITTED: November 29, 1956.

AVAILABLE: Library of Congress.

1. Complex compounds-Dipole moments 2. Zirconium chloride-Dipole moments 3. Organic compounds-Dipole moments

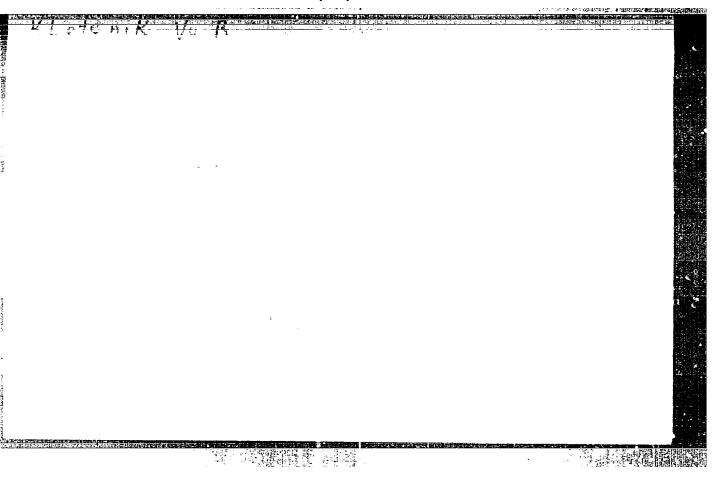
Card 2/2

Effect of bivalent manganese on the electrodeposition of sine.

Zhur.prikl.khim. 30 no.8:1250-1252 Ag '57. (MIRA 11:1)

1.Rostovskiy gosuniversitet imeni V.M. Molotova.
(Manganese) (Zinc plating)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020015-1



KLETENIK, Yu.B., Cand Chem Soi -- (diss) "Physico-chemical ctudy of certain molecular compounds of halides of mirconium and titanium, " Hovocherkansk, 1959. 18 pp (Hovocherkassk Order of Labor Red Banner Polytech Inst im S. Ordzhonikodze). 150 copies author's works at end of text (10 titles) (KL, 40-59, 102)

5.2620 5 (2), 5 (3) AUTHORS:

Kletenik, Yu. B., Osipov, O. A. SOV/153-

SOV/153-2-5-7/31

TITLE:

Physico-chemical Examination of Several Complex Compounds of Zirconium Halides With Esters of the Monobasic Carboxylic Acids

PERIODICAL:

Izvestiya vysshikh uchebnykh savedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Mr 5, pp 679-684 (USSR)

ABSTRACT:

The authors continue their previous studies (Refs 5, 6) on the subject mentioned in the title. In the present paper, additional laws governing the change in polarity, stability and the formation temperature of the mirconium-chloride-bromide-iodide series are studied. The methods are described in references 5-8. Table 1 shows the measurement results of the dielectric constant (6) and of the density (d) of benzene solutions of the complex ZrCl₄·CH₂COOC₂H₅ and the calculated values of its polarisation (P). The polarisation of the complexes ZrHal₄·CH₂COOC₂H₅ shows that these complexes do not dissociate in benzene into their components in a marked manner. The complexes ZrHal₄·2CH₂COOC₂H₅ dissociate according to the scheme ZrHal₄·2Est ZrHal₄·Est + Est. The tendency for dissociation increases in the order

Card 1/3

"APPROVED FOR RELEASE: 06/19/2000

Physico-chemical Examination of Several Complex 30V/153-2-5-7/31 Compounds of Zirconium Halides With Esters of the Monobasic Carboxylic Acids

chloride - bromide - iodide. Tables 2 and 3 list the measurement results of the dielectric permeability and the density of the benzene solution of several complexes of sirconium - bromide and sirconium - iodide as well as the polarization values computed for these complexes. A marked change in the polar properties of the complexes investigated cannot be determined in the transition from zirconium-obloride to -browide and -iodide. The polarity of the iodide complexes is lower than that of the chloride complexes of zirconium. In the transition from mirconium-chloride to zirconiumbromide and sirconium-iodide, the influence of the alcohol radical of the ester rises which increases the polarity of the complexes. The complexes ZrHal4 - 2CH3 COOC2H5 have a cis configuration. The addition temperature of the 2nd ethyl acetate molecule to the zirconium halide is much lower than the addition temperature of the 1st molecule. The transition from sirconium-chloride to zirconium-bromide has little effect on the reaction temperature with ethyl acetate. There are 3 tables and 8 references, 7 of which are Soviet.

Card 2/3

67033

507/153-2-5-7/31 Physico-chemical Examination of Several Complex Compounds of Zirconium Halides With Esters of the Monobasic Carboxylic Acids

ASSOCIATION: Rostovskiy-na-Donu gosudarstvennyy universitet; Kafedra

2000年前

fizicheskoy i kolloidnoy khimii (Rostov-na-Donu State University, Chair of Physical and Colloidal Chemistry)

SUBMITTED: May 29, 1958

Card 3/3

5(2)

AUTHORS:

Osipov, O. A., Kletenik, Yu. B.

SOY/78-4-7-6/44

TITLE:

The Dipole Moments of Halides of Zirconium, Titanium, Tin, and Aluminum in Dioxane (Dipol'nyye momenty galogenidov tsirkoniya, titana, olova i alyuminiya v dioksane)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Mr 7, pp 1494-1497 (USSR)

ABSTRACT:

In an earlier paper (Ref t) the authors proved that in the elements of the fourth group a direct dependence exists on the ratio of the covalent radii of the complex-forming atom and of chlorine for the polarity of the tetrachlorides in dioxane. With a growing value of this ratio polarity increases. In the present paper the dipole moments of AlBr₃, AlJ₃, SnCl₄, SnJ₄, ZrJ₄ and TiBr₄ in dioxane are measured. The values for the dielectric permeability and for the density of the aforementioned compounds (at 20°) are given in tables 1 and 2. Table 3 contains the data concerning the dipole moments in dioxane of the halides of Hg, Al, Ti, Zr, Sn and As as measured by the authors or available in publications. The following was found: For

Card 1/2

The Dipole Moments of Halides of Zirconium, Titanium, Tin, and Aluminum in Dioxane

AlBr₃ = 3.30D, AlJ₃ = 4.98D, SnCl₄ = 5.10D, SnBr₄ = 4.13D, SnJ₄ = 1.55D, ZrJ₄ = 5.36D, TiBr₄ = 5.05D. The polarity of aluminum halides increases in dioxane in the series Cl = Br = J; that of tin halides decreases in the same direction. The dipole moment of ZrCl₄ is higher than that of bromide and iodide. TiBr₄ has a higher dipole moment than TiCl₄. On the basis of published data and own measurements the following rule is assumed: The polarity of the halides of elements of the 2. and 3. group of the periodic system increases in the series Cl = Br = J, that of the halides of the elements of the main subgroups of the 4. and 5. group decreases. The titanium subgroup occupies an intermediate position. There are 3 tables and 16 references, 11 of which are Soviet.

SUBMITTED:

April 26, 1958

Card 2/2

AUTHORS: 507/79-29-1-4/74 Kletenik, Yu. B., Osipov, O. A., Kravtsov, Ye. Ye. TITLE: Coordination Compounds of Zirconium Tetrachloride With Esters of Monobasic Acids. XV (Koordinatsionnyye soyedineniya tetrakhlorida tsirkoniya so slozhnymi efirami odnocenovnykh kislot. XV) PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 11-16 (USSR) ABSTRACT: In the previous paper (Ref 1) dealing with the complex compounds of zirconium tetrachloride with esters of monobasid acids it was shown that the formation of the complexes of the type ZrCl₂.2RCOOR, is accompanied by an intensification of the polar properties. In such complex compounds zirconium has the coordination number 6 which is characteristic of this element. According to Sidgwick (Ref 2) it shows coordination numbers of the order 5, 6, 7 and 8 in its complex compounds. It is the aim of the present paper to investigate the presence of complexes where zirconium has the minimum coordination number five. Therefore, compounds of the composition ZrCl, RCOOR, were investigated in benzene solution as prepara-Card 1/3

Coordination Compounds of Zirconium Tetrachloride With Esters of Monobasic Acids. XV

SOV/79-29-1-4/74

tive method, and with respect to the polar and cryoscopic properties. The determination method of the dipole moments, molecular weights and the purification of the used products had already been described in an earlier paper (Refs 1, 3, 4). The following complexes were separated and analyzed: Zrc14.HCOOC2H5,ZrC14.HCOOC3H7,ZrC14.CH3COOC2H5, ZrCl4.CH3COOC3H7 and ZrCl4.C3H7COOC2H5. Their dispole moments were determined in benzene. It was found that with increasing partial weight of the acid radical in ether the dipole moment of the complex decreases. The molecular weights of the abovementioned complexes were determined according to the cryoscopic method. The cause for the tendency of the complexes towards association was explained. The triple complexes ZrC14.HCOOC2H5.C6H6 and ZrC14.HCOOC2H5.C6H5CH3 were also separated and analyzed. There are 12 tables and 8 references, 4 of which are Soviet.

ASSOCIATION: Card 2/3 Rostovskiy gosudarstvennyy universitet (Rostov State University)

5 (4) AUTHORS:

Osipov, O. A., Kletenik, Yu. B.

807/79-29-4-71/77

TITLE:

Physico-chemical Investigation of the Reaction of Zirconium Chloride With Esters of the Monobasic Acids. III. (Fisiko--khimicheskoye issledovaniye vzaimodeystviya khlorida tsirkoniya

so sloshnymi efirami odnoosnovnykh kislot.III)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Mr 4, pp 1375 - 1382

(USSR)

ABSTRACT:

Publications do not point out the existence of compounds which contain more than two ester molecules for one molecule MeCl₄, e. g. MeCl₄, 3 E (ester molecules) (Refs 1-8). It was the authors task to investigate the reaction of the complexes of the composition ZrCl₄. 2 E with a third ester molecule in benzene. For this investigation more precise data on the molar state of the complexes ZrCl₄. E and ZrCl₄. 2 E in benzene were necessary. The complicated character of the dependence of the polarization of the complexes ZrCl₄. 2 E on the concentration

Card 1/2

which was detected (Ref 9) and interpreted earlier by the

Physico-chemical Investigation of the Reaction of 50V/79-29-4-71/77 Zirconium Chloride With Esters of the Monobasic Acids. III.

authors was in the present paper based upon cryoscopic investigations of some of these components. The tables 1-3 and figure 1 give the cryoscopic data of the benzene solutions of the complexes ZrCl₄.2HCOOC₂H₅, ZrCl₄.2CH₅COOC₂H₅ and ZrCl₄.2C₃H₇COOC₂H₅. The comparison of the results confirm the aforesaid assumption concerning the rôle of the concentration. It was found that the complexes of this composition dissociate considerably into the components in benzene solution. The series formiate-acetate--butyrate shows a clear tendency to dissociation. A scheme was suggested for this dissociation. By means of the cryoscopic method and by the determination of the dielectric constant was found that the sirconium chloride reacts in bensene with two ester molecules only. The dielectric constants of the complex computed and from ... the data of polarization and to the cryoscopic method were equal. There are 1 figure, 7 tables, and 18 references, 10 of which are Soviet.

ASSOCIATION:

Rostovskiy-na-Donu gosudarstvennyy universitet (Rostov-na-Donu

State University)

SUBMITTED:

January 23, 1958

Card 2/2

5(3) 5(4)

AUTHORS:

Kletenik, Yu. B., Osipov, O. A.

SOV/79-29-5-4/75

TITLE:

Physical-Chemical Investigation of the Interaction of Zirconium Halides With Esters of Monobasic Acids (Pisiko-khimicheskoye issledovaniye vzaimodeystviya galogenidov tsirkoniya so sloshnymi efirami odnoosnovnykh kislot). 4. Complexes of Zirconium Bromide (4. Kompleksy bromida tsirkoniya)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1423 - 1429 (USSR)

ABSTRACT:

Card 1/3

In the present paper the complexes formed from zirconium bromide and esters of monobasic acids were investigated by means of the method of the dielectric constant and cryoscopy in benzene as well as by preparation in a pure condition. The investigation methods and the purification of the reagents used were described previously (Refs 3 and 5). In tables 1-3 the dielectric constants, ZrBr. 180000 %

ZrBr₄.HCOOC₂H₅, ZrBr₄.CH₃COOC₂H₅ and ZrBr₄.C₃H₇COOC₂H₅ in benzene are summarized. The dipole moments of these complexes

Physical-Chemical Investigation of the Interaction of SOV/79-29-5-4/75 Zirconium Halides With Esters of Monobasic Acids. 4. Complexes of Zirconium Bromide

(#), the dipole moments of the esters contained in them (#) and the difference (#-#.) are given in table 4. The figure shows the oryoscopic data for the complexes ZrBr4.HC00C2H5, ZrBr4.CH3C00C2H5 as well as for ZrBr4.2HC00C2H5 and ZrBr4.2CH3C00C2H5 in benzene. The tables 5-9 contain data on the dielectric polarization of complexes ZrBr4.2HC00C2H5, ZrBr4.2CH3C00C2H5, ZrBr4.2CH3C00C3H7, ZrBr4.2CH3C00C4H9, ZrBr4.2CH3C00C2H5. Table 10 presents data on the molecular polarization of the complex ZrBr4.2CH3C00C2H5 in benzene colutions with different excess of ethyl acetate. The polarization was found to decrease in complexes of a ZrBr4.2E-composition (with the exception of ethyl formate) in the series sirconium chloride-bromide and the dissociation of the linkage with the second molecule of the ester was found to increase. The tendency of the ZrBr4. E-complexes towards dimerization is less pronounced than in similar complexes of the serconium chloride.

Card 2/3

Physical-Chemical Investigation of the Interaction of SOV/79-29-5-4/75 Zirconium Halides With Esters of Monobasic Acids. 4. Complexes of Zirconium Bromide

On the strength of the data concerning polarization and cryoscopy of the ZrBr₄.2CH₃COOC₂H₅-complex its dissociation constant in bensene was calculated. It proved to be about 2.10⁻². The polarity was found to increase in ZrBr₄-complexes with othyl acetate, propyl acetate and isobutyl adetate if the alcohol radical increases. The complexes ZrBr₄.HCOOC₂H₅,ZrBr₄.CH₃COOC₂H₅, ZrBr₄.CH₃COOC₂H₅, ZrBr₄.CH₃COOC₂H₅, ZrBr₄.CH₃COOC₂H₅, ZrBr₄.HCOOC₂H₅, Mere separated and their melting points determined (108°, 164° and 157°). Also the mixed complex ZrBr₄.HCOOC₂H₅.C₆H₆ was prepared in pure condition. It was found that the bensene in it is bound to a considerably lower extent than in the similar ZrCl₄.HCOOC₂H₅.C₆H₆-complex (Ref 6). There are 1 figure, 10 tables, and 12 references, 9 of which are Soviet.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute)

SUBMITTED: Card 3/3

March 10, 1958

5 (2) AUTHORS:

Osipov, O. A., Eletenik, Yu. B.

807/79-29-7-3/83

TITLE:

Physicochemical Investigation of the Reaction of Zirconium Halides With Esters of Monobasic Acids (Fisiko-khimicheskoye issledovaniye vsaimodeystviya galogenidov tsirkoniya so sloshnymi efirami odnoosnovnykh kislot). V. Complexes of Zirconium

Iodide (V. Kompleksy yodida tsirkoniya)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2119 - 2124

(USSR)

ABSTRACT:

In the present paper the results of the investigation of the polar properties of sirconium iodide complexes with esters of monobasic carboxylic acids in benzene are mentioned. The initial benzene solutions of the complexes were produced by dissolving sirconium iodide in benzene which contained an equivalent amount of ester. The dipole moments of the complexes $ZrJ_4 \cdot CH_3COOC_2H_5$, $ZrJ_4 \cdot 2HCOOC_2H_5$, $ZrJ_4 \cdot 2CH_3COOC_2H_5$, $ZrJ_4 \cdot 2CH_3COOC_2H_5$, $ZrJ_4 \cdot 2CH_3COOC_2H_5$ in benzene were determined. It was found that the increase of the acid radical of the esters reduces and the increase of the alcohol radical increases the polarity of the complexes investi-

Card 1/3

Physicochemical Investigation of the Reaction of Zirconium Halides With Esters of Monobasic Acids. V. Complexes of Zirconium Iodide

gated. The dissociation constant of the complex $ZrJ_4 \circ 2CH_5$ — $COOC_2H_5$ was approximately determined by means of the dielectric constant. In the complexes of zirconium tetrahalides with the esters of monobasic acids in the series of zirconium chloride, bromide, and iodide an increasing tendency of the complexes $ZrHal_4 \circ 2E$ (Rester) towards dissociation (separation of the second ester molecule), on the other hand, however, a decreasing tendency of the complexes $ZrHal_4 \circ E$ towards association and an increasing influence of the alcohol radical were observed. The tendency of the complexes $ZrHal_4 \circ 2E$ towards dissociation increases with the increasing acid radical. A comparison of the polarity data of the complexes $ZrHal_4 \circ E$ and $ZrHal_4 \circ 2E$ (7 tables) leads to the conclusion that all $ZrHal_4 \circ 2E$ complexes investigated have cis-structure. There are 1 figure, 7 tables, and 8 Soviet references.

Card 2/3

Physicochemical Investigation of the Reaction of 807/79-29-7-3/83 Zirconium Halides With Esters of Monobasic Acids. V. Complexes of Zirconium Iodide

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute)

SUBMITTED: June 10, 1958

Card 3/3

CIA-RDP86-00513R000723020015-1" APPROVED FOR RELEASE: 06/19/2000

8/078/60/005/010/023/030/XX B017/B067

AUTHORS:

Osipov, O. A. and Kletenik, Yu. B.

TITLE:

The Heat of the Reaction of Zirconium Halides With Esters

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

pp. 2220-2222

TEXT: The heat which is generated in the reaction of zirconium bromide and zirconium chloride with ethyl formiate, ethyl acetate, and ethyl butyrate, as well as the heat of solution of zirconium iodide in ethyl acetate were determined. The ratio of zirconium bromide and zirconium chloride to the esters was 1:1, and 1:2, respectively. The heats of solution of zirconium halides and their complex compounds in these esters which were also determined are given in Table 1. Table 2 shows the heat of formation of the complexes. The complexes could be obtained only as solutions, not in the solid form. The heat of formation of complexes with the composition 1:1 was, in all cases investigated, higher than that of complexes with the composition 1:2. This result confirms the

Card 1/2

The Heat of the Reaction of Zirconium Halides With Esters

8/078/60/005/010/023/030/XX B017/B067

dissociation scheme suggested earlier by the authors (Refs. 4,5). In contrast to molecular compounds of tetrahalides of tin in the order chloride - bromide - iodide with these esters, no continuous decrease in the heats of formation in the above order was observed in the complexes of zirconium halides. The heat of formation of complexes of zirconium bromide with these esters is somewhat higher than that of complexes of zirconium chloride. The heat of solution of zirconium iodide in ethyl acetate is 4% lower than the heat of solution of zirconium chloride in the same ester. There are 2 tables and 9 references: 7 Soviet and 2 US.

SUBMITTED: July 3, 1959

Card 2/2

KLETENIK, Yu.B.; OSIPOV, O.A.

Reaction of titanium tetrahalides with esters of acetic acid.

Zhur. ob. khim. 31 no.3:710-716 Mr 161. (MIRA 14:3)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR. (Titanium compounds)

CSIPOV, O.A.; KLETENIK, Tu.B. Reaction of sirconium chloride with organic additives having various functional groupe. Zhur.ob.khim. 31 no.8:2451-2456 Ag (61. (Zirconium chloride) (Zirconium organic compounds)

KLETENIK, Yu.B.

Extraction of trivalent iron by isoamyl phosphoric acid solutions. Izv. Sib. otd. AN SSSR no.6259-67 162 (MIRA 17:7)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.

LEVIN, I.S.; KLETENIK, Yu.B.

Conference on Extraction in Analytical Chemistry. Zav.lab. 28 no.4:516-517 '62. (MIRA 15:5) (Extraction (Chemistry)....Congresses) (Chemistry, Analytical)

KLETENIK, Yu.B.

Separation of iron by extraction for its quantitative determination. Zhur.anal.khim. 17 no.7:868-873 0 '62. (MIRA 15:12)

1. Chemico-Metallurgical Institute, Academy of Sciences of the U.S.S.R., Siberian Department, Movosibirsk.
(Iron-Analysis) (Extraction (Chemistry))

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KLETENIK, Yu.B.

New extraction-photometric method for the determination of titanium. Report Mo.1: Peroxide complex of titanium in an isoamylphosphoric extract. Zhur.anal.khim. 17 no.9:1063-1067 D '62. (MIRA 16:2)

1. Chemico-Metallurgical Institute, Academy of Sciences, U.S.S.R., Siberian Department, Novosibirsk.

(Titanium—Analysis)

(Photometry)

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5/075/63/018/001/007/010 E071/E492

AUTHOR:

Kletenik, Yu.B.

TITLE:

A new extraction-photometric method of determining titanium. Communication II. Stabilisation of discample prophosphoric acid. Determination of titanium in solutions of various compositions

PERIODICAL: Zhurnal analiticheskoy khimii, v.18, no.1, 1963, 66-70 Tetravalent titanium can be extracted with 1% bensene solution of a mixture of discamplorthophosphoric and discamplpyrophosphoric acids with a wide range of concentrations of sulphuric, hydrochloric and nitric acids. On shaking the extract with hydrogen peroxide a coloured titanium complex is formed which can be extracted with bensene and can be used for the photometric determination of titanium directly in the extract. The results of application of this method for the determination of titanium in solutions of various composition are given. The efficiency of the extraction of titanium depends on the content of discomylpyrophosphoric acid. It was found that the reagent, which hydrolises on storing, can be stabilised by an addition of pyridine or aniline, the former being used in all experiments as more suitabl Card 1/2

A new extraction-photometric ..

8/075/63/018/001/007/010 E071/E452

The method developed for the determination of titanium consists in its extraction from strongly acid solutions with a benzene solution of a mixture of isoamylphosphoric acids, formation of peroxide complex of titanium diisoamylpyrophosphate, separation of the organic and aqueous phases, dilution of the organic phase to a known volume with ethyl alcohol and determination of its optical density. The maximum relative error for solutions containing 20 mg/l of TiO2 amounted to + 6% and for solutions containing 500 mg/l +3%. The presence of large quantities of coloured cations (Co, Ni, Cu, Cr2+) does not interfere in the determination; however, trivalent iron should not exceed 2 g/l and aluminium 20 g/l. There are 2 tables.

ASSOCIATION: Khimiko-metallurgicheskiy institut Sibirskogo Otdeleniya AN SSSR, Novosibirsk (Chemical Metallurgical Institute, Siberian Branch AS USSR, Novosibirsk)

SUPMITTED: May 9, 1962

Card 2/2

KLETENIK, Yu.B. (Novosibirsk)

Design of a mixer for studying the kinetics of rapid reactions in solutions by the flow method. Zhur. fiz. khim. 37 no.5: 1193-1195 My 163. (MIRA 17:1)

KIETENIK, Yu.B.; BYKHOVSKAYA, I.A.

Determination of iron by extraction with 2-ethylhexylphosphoric acids. Zav.lab. 29 no.11:1306-1307 '63. (MIRA 16:12)

1. Khimiko-metallurgicheskiy institut Sibirakogo ordeleniya AN SSSR.

KLETENIK, Yu.J., kand. khim. nauk, otv. red.; TAMASOVA, N.V., red.

[Chemical analysis of nonferrous and rare metals] Khimicheskii analiz tsvetnykh i redkikh metallov. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia N. SSC, 1964. 158 p. (MIRA 18:1)

1. Akademiya nauk SSSR. Sibirokoye otdeleniye. Khimikometallurgicheskiy institut.

ACCESSION NR: AP4014223

8/0075/64/019/002/0208/0211

AUTHOR: Kletenik, Yu. B.

TITLE: A new extraction photometric method for determining titanium 3. The use of an ethanol solution of hydrogen peroxide.

Determining titanium in solutions containing fluorine ions

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 2, 1964, 208-211

TOPIC TAGS: titanium, titanium determination, extraction photometric analysis, fluoride masking, titanium peroxide complex, benzene iso-amylphosphoric acid extraction

ABSTRACT: The possibility of using an ethanol solution of hydrogen peroxide to form a peroxide titanium complex in a benzene-isoamyl-phosphoric extract has been studied. By using this solution the dependence of the color intensity of the extract upon the pyrophosphoric ester content is greatly decreased, thus increasing the accuracy of the titanium determination and making the extraction concentration

Card 1/2

ACCESSION NR: AP4014223

of small amounts of titanium possible. A method was developed for the extraction determination of titanium in solutions containing the extraction determination of titanium in solutions containing fluorine ions which normally suppress the extraction of titanium when isoamylphosphoric acid is used. Masking of the fluoride ions with aluminum is most effective (beryllium and boric acid were also tried) Almost complete extraction of titanium from fluoride-containing solutions is possible if sufficient aluminum (P:Al ratio must not exceed 2:1) is added and the extraction is conducted in 1-5N H₂SO₄. or HCl. Orig. art. has: 2 tables and 1 figure.

ASSOCIATION: Khimiko-metallurgioheskiy institut Sibirskogo otdeleniya AN SSSR, Nevosibirak (Chemico-Metallurgical Institute, Siberian Division, AN 88SR)

SUBMITTED: 11Feb63

DATE ACQ: 12Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 003

OTHER: OOO

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020015-1

m fish to the protect for a first * MR APSOCROOM 5/0.86 65 007/001/0110/0113 fletenik, Yu. B.; Levin, I. S. Peaction of mono-2-ethylhemylphosphoric acid with tributviphosphate in SOURCE. Radiokhimiya, v. 7, no. 1, 1965, 119-113 TOPIC TAGS: ethylhexylphosphoric acid, tributylphosphate, octane, heat of reaction ABSTRACT: The purpose of this article was to study the isomolar series of mono-2ethylhexylphocphoric acid (M2EHP) and tributylphosphate (TBF) in water-saturated entane solutions. Measurement of the heats of mixing was done in an adiabatic calculation with an inothermal jacket. The heats of mixing obtained cannot be used time the for the determination of the heat of the real tion of M2DHF and TBP because realth to me to the heat of reaction there are heat offects due to the dilution of omponents, in addition to this, a significant amount of the water phase is liberatad upon mixing of the homogeneous components. This indicates that the complexation process to accompanied by dehydration of the components. Two molecular compounds Cord 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020015-1

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"APPROVED FOR RELEASE: 06/19/2000

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ACCESSION NR: AP5013499

UR/0075/65/020/005/0567/0578 543.70

Kletenik, Yu. B.; Bykhovskaya, I. A. AUTHOR:

Extraction of titanium using 2-ethylhexylphosphoric scids TITLE:

Zhurial analiticheskoy khimii, v. 20, no. 5, 1965, 567-573 SOURCE:

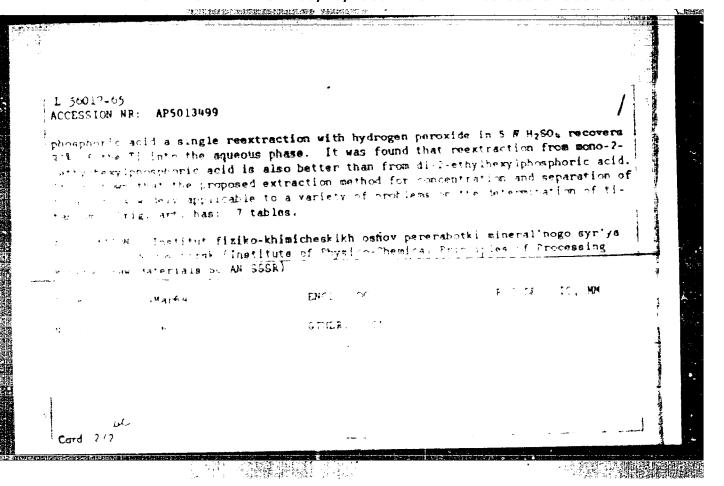
TOPIC TAGS: titanium, extracting agant, chemical analysis

ABSTRACT. The purpose of this work was to develop a more sensitive method for the determination of titanium, based on its extraction using benzene solutions of di-2-! -ethylhexylphosphoric acids. Titanium was reextracted into the aqueous phase using hydrogen peroxide and tributylphosphate simultaneously. The mixture of monoand li-2-ethylhexylorthophosphoric acids was produced by reacting 2-ethylhexyl alcober with phosphorus pentoxide followed by hydrolysis of the pyrophosphate. It was shown that mono-2-ethylhexylphosphoric acid extracts titanium rapidly and with a high distribution coefficient from sulfurie, hydrochloric and nitric acid solutions in a broad range of concentrations of these acids. The extracting using di--2-ethylhexylphosphoric acid is less favorable. In the case of mono-2-ethylhexyl-

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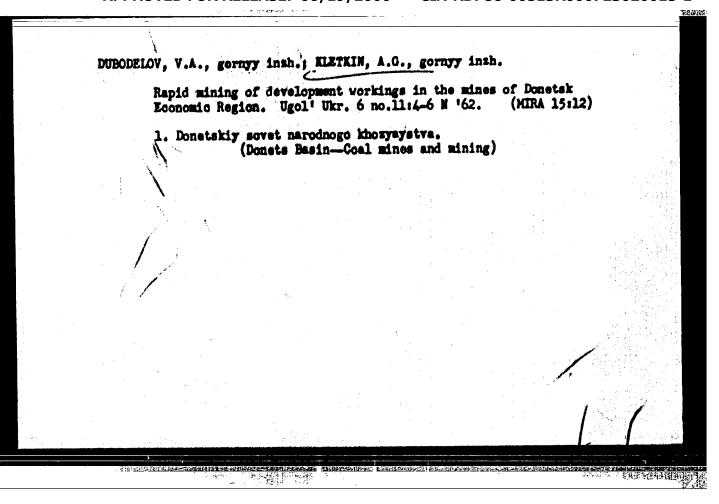
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